BRUHAT BANGALORE MAHANAGARA PALIKE

KODIGEHALLI SUBDIVISION

WARD NO.07, Byatarayanapura

Measurements sheet

Name of work: Improvements to drains of 4th cross road of shabarinagara in ward No.07 Byatarayanapura.

Estimate Cost: 25.00 Lakhs

BRUHAT BANGALORE MAHANAGARA PALIKE

KODIGEHALLI SUB DIVISION- WARD 7 BYATARAYANAPURA

Agency **Sri.PAVAN.S**

Name of work:Improvements to drains of 4th cross road of shabarinagara in ward No.07 Byatarayanapura

Estimated Cost:- 25.00 Lakhs

Sl NO	Description of work	No	L	B	D	QTY		
1	Earthwork excavation by manual means in rodinary soil involving an average horizontal throw upto 2 m and an average lift upto 1.5m, excavated surafce levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications							
	LHS							
	0-30	1	30.00	0.95	0.85	24.23		
	30-60	1	30.00	0.95	0.85	24.23		
	60-90	1	30.00	0.95	0.85	24.23		
	90-120	1	30.00	0.95	0.85	24.23		
	120-150	1	30.00	0.95	0.85	24.23		
	150-165	1	15.00	0.95	0.85	12.11		
						133.24		
	RHS							
	0-30	1	30.00	0.95	0.85	24.23		
	30-60	1	30.00	0.95	0.85	24.23		
	60-90	1	30.00	0.95	0.85	24.23		
	90-120	1	30.00	0.95	0.85	24.23		
	120-150	1	30.00	0.95	0.85	24.23		
						121.13		
	MAIN ROAD	1	19.00	0.95	0.85	**15.34**		
	Rain water units	4	0.50		1.70	**3.40**		
OVERBURDEN EAR		1	10	2.5	0.15	3.75		
		1	17	3	0.3	15.30		
						19.05		
					TOTAL	**292.16**		

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bengalore.

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bengalore.

2	Providing and laying in position plain cement concrete of nominal mix 1:4:8 with OPC @ 180kgs, with 40mm and down size graded granite metal machine mixed, conrete laid in layers not exceeding 15 cms. Thick well compacted in foundation and plinth, including cost of all materials labour, HOM of machinery, curing complete as per specification							
	RCC DRAIN BOTTOM							
	LHS							
	0-30	1	30	0.95	0.15	4.28		
	30-60	1	30	0.95	0.15	4.28		
	60-90	1	30	0.95	0.15	4.28		
	90-120	1	30	0.95	0.15	4.28		
	120-150	1	30	0.95	0.15	4.28		
	150-165	1	15	0.95	0.15	2.14		
	RHS							
	0-30	1	30	0.95	0.15	4.28		
	30-60	1	30	0.95	0.15	4.28		
	60-90	1	30	0.95	0.15	4.28		
	90-120	1	30	0.95	0.15	4.28		
	120-150	1	30	0.95	0.15	4.28		
	MAIN ROAD	1	19	0.95	0.15	2.71		
						47.60		

4	Providing TMT Steel Reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications							
				L	no of rods	le of u bar	Total length	
							10mm	8mm
	Main rod	0-30	1	30	365	1.5	547.5	
	distribution		1	30	7	30		210
		30-60	1	30	355	1.5	532.5	
			1	30	7	30		210
		60-90	1	30	395	1.65	651.75	
			1	30	7	30		210
		90-120	1	30	400	1.65	660	
			1	30	7	30		210

		120-150	1	30	400	1.65	660	
			1	30	7	30		210
		150-165	1	15	185	1.65	305.25	
			1	15	7	15		105
	RHS	0-30	1	30	350	1.65	577.5	
			1	30	7	30		210
		30-60	1	30	350	1.65	577.5	
			1	30	7	30		210
		60-90	1	30	360	1.65	594	
			1	30	7	30		210
		90-120	1	30	360	1.65	594	
			1	30	7	30		210
		120-150	1	30	360	1.65	594	
			1	30	7	30		210
	MAIN ROAD	0-19	1	19	250	1.85	462.5	
			1	19	8	19		152
							6756.5	2357
							0.62 kg/cum	0.39kg/cum
							4189.03	919.23
							5108.26	**5.1**

5	Providing and removing Centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / rectangular slabs /side walls polygon in plan including cost of materials, labour complete as per specification and directions of the Engineer in charge							
	LHS							
	0-30	4	30.00		0.45	54.00		
	30-60	4	30.00		0.45	54.00		
	60-90	4	30.00		0.45	54.00		
	90-120	4	30.00		0.45	54.00		
	120-150	4	30.00		0.45	54.00		
	150-165	4	15.00		0.45	27.00		
	RHS							
	0-30	4	30.00		0.45	54.00		
	30-60	4	30.00		0.45	54.00		
	60-90	4	30.00		0.45	54.00		
	90-120	4	30.00		0.45	54.00		
	120-150	4	30.00		0.45	54.00		
	MAIN ROAD	4	19.00		0.45	34.20		
					TOTAL	**601.20**		

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P

3	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregates @ 0.460 cum with superplastizers @ 3lts confirming to IS 9103-1999 RE affirmed - 2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, stair case lintels, retaining walls return walls, walls(anythickness) including attached plasters columns piers abutments pillars posts struts butresses string or lacing courses parapets copings, bed blocks , plain windows cills fillets etc., including cost of all materials labour HOM of machinery curing complete as per specifications.							
	RCC DRAIN BOTTOM							
	LHS							
	0-30	1	30	0.95	0.15	4.28		
	30-60	1	30	0.95	0.15	4.28		
	60-90	1	30	0.95	0.15	4.28		
	90-120	1	30	0.95	0.15	4.28		
	120-150	1	30	0.95	0.15	4.28		
	150-165	1	15	0.95	0.15	2.14		
	RHS							
	0-30	1	30	0.95	0.15	4.28		
	30-60	1	30	0.95	0.15	4.28		
	60-90	1	30	0.95	0.15	4.28		
	90-120	1	30	0.95	0.15	4.28		
	120-150	1	30	0.95	0.15	4.28		
	MAIN ROAD	1	19	0.95	0.15	2.71		

97.65

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	RCC DRAIN SIDE WALL							
	LHS							
	0-30	2	30	0.15	0.45	4.05		
	30-60	2	30	0.15	0.45	4.05		
	60-90	2	30	0.15	0.45	4.05		
	90-120	2	30	0.15	0.45	4.05		
	120-150	2	30	0.15	0.45	4.05		
	150-165	2	15	0.15	0.45	2.03		
	RHS							
	0-30	2	30	0.15	0.45	4.05		
	30-60	2	30	0.15	0.45	4.05		
	60-90	2	30	0.15	0.45	4.05		
	90-120	2	30	0.15	0.45	4.05		
	120-150	2	30	0.15	0.45	4.05		
	MAIN ROAD	2	19	0.15	0.45	2.57		
						92.69		
6	Providing and fixing 10cms thick pre cast RCC covering slab using reinforced cement concrete M20 mix with stone aggregate 20mm and down size including centring shuttering reinforcement and bar bending machine mixed concrette laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing complete as per specfications							
	LHS							
	0-30	50	0.60	0.75		22.50		
	30-60	50	0.60	0.75		22.50		
	60-90	50	0.60	0.75		22.50		
	90-120	50	0.60	0.75		22.50		
	120-150	50	0.60	0.75		22.50		
	150-165	25	0.60	0.75		11.25		
	RHS							
	0-30	50	0.60	0.75		22.50		
	30-60	50	0.60	0.75		22.50		
	60-90	50	0.60	0.75		22.50		
	90-120	50	0.60	0.75		22.50		
	120-150	50	0.60	0.75		22.50		
	MAIN ROAD	32	0.60	0.75		14.40		
	Missing qty LNT Road	25	0.60	0.90		13.50		
	Kempapura Masjid	35	0.60	0.90		18.90		
		31	0.60	0.90		16.74		
				Sqm		299.79		

7	Laying Reinforced cement concrete pipe NP2 / prestressed concrete pipe for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets complete as per specifications.							
		4	1.5			6		
				Sqm		6		
8	Providing 100mm and down size nominal size.							
		4	0.28		0.6	0.680		
				Sqm		0.68		
9	Providing40mm and down size nominal size.							
		4	0.28		0.4	0.45		
				Sqm		0.45		
10	Providing 20mm and down size nominal size.							
		4	0.28		0.4	0.45		
				Sqm		0.45		
11	Providing Fine aggrgate 2.36mm nominal size							
		4	0.28		0.3	0.34		
				Sqm		0.34		
12	Providing and fixing MS Grating 260x260 mm							
		75		nos		75.00	NDD AE(Civil) 22/11	
13	Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter							
				cum		292.16		

Assistant Engineer
Ward No.07

Assistant Executive Engineer
Kodigehalli Sub division

25/11/19

Executive Engineer
Byatarayanapura Division

Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.,
Bangalore.